

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P246338

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20840 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1293.0 lumens
Efficiency: 68.5%
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

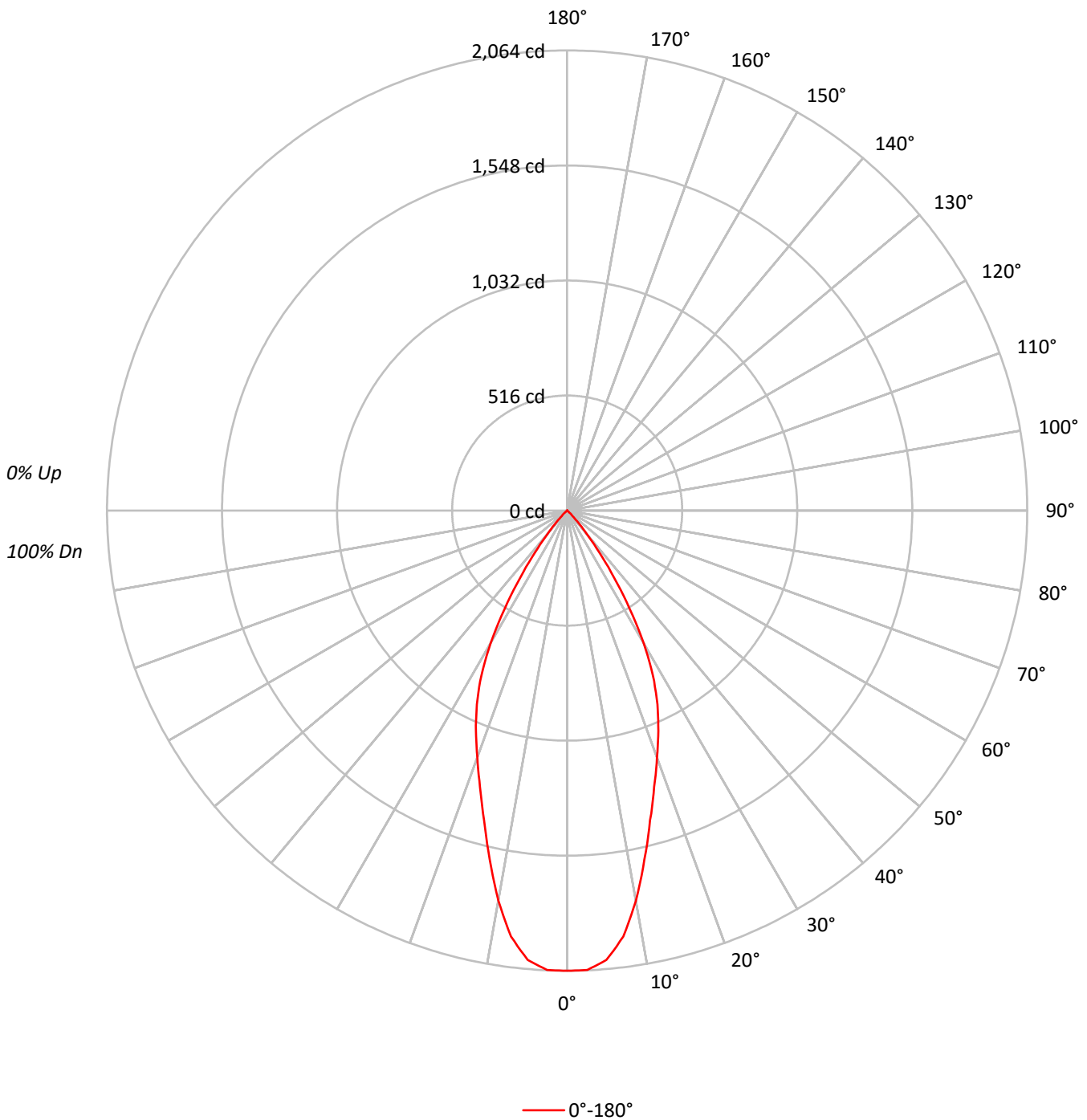
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	70	70	70	69	
1	78	76	75	73	76	75	73	72	72	71	70	70	69	68	67	67	66	67	67	66	65	
2	75	71	69	67	73	70	68	66	68	66	65	66	65	63	64	63	62	64	63	62	61	
3	71	67	64	61	70	66	63	61	64	62	60	63	61	59	61	60	58	61	60	58	57	
4	68	63	60	57	67	62	59	57	61	58	56	60	57	55	58	56	55	58	56	55	54	
5	65	60	56	53	64	59	55	53	58	55	52	57	54	52	56	53	52	56	53	52	51	
6	62	56	52	50	61	56	52	50	55	52	49	54	51	49	53	51	49	53	51	49	48	
7	59	53	49	47	58	53	49	47	52	49	46	51	48	46	50	48	46	50	48	46	45	
8	57	51	47	44	56	50	47	44	49	46	44	49	46	44	48	45	43	48	45	43	43	
9	54	48	44	42	53	48	44	42	47	44	41	46	43	41	46	43	41	46	43	41	40	
10	52	46	42	40	51	45	42	39	45	42	39	44	41	39	44	41	39	44	41	39	38	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63640
5°	62636
10°	55641
15°	45913
20°	38660
25°	32609
30°	24423
35°	13812
40°	5454
45°	1461
50°	293
55°	0
60°	43
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	185.1	14.3	9.8	0°	2064	
10°-20°	403.6	31.2	21.4	5°	2024	185
20°-30°	432.3	33.4	22.9	15°	1438	404
30°-40°	234.3	18.1	12.4	25°	958	432
40°-50°	36.4	2.8	1.9	35°	367	234
50°-60°	1.0	0.1	0.1	45°	34	36
60°-70°	0.3	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1021.0	79.0	54.1	165°	0	0
0°-40°	1255.3	97.1	66.5	175°	0	0
0°-60°	1292.8	100.0	68.5	180°	0	0
0°-90°	1293.0	100.0	68.5			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1293.0	100.0	68.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2063.8
2.5°	2062.5
5°	2023.5
7.5°	1927.0
10°	1777.0
12.5°	1602.5
15°	1438.2
17.5°	1299.2
20°	1178.1
22.5°	1069.2
25°	958.4
27.5°	833.1
30°	685.9
32.5°	523.0
35°	366.9
37.5°	234.9
40°	135.5
42.5°	72.5
45°	33.5
47.5°	17.8
50°	6.1
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)